

DERWENT-ACC-NO: 1978-K3410A

DERWENT-WEEK: 197847

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**TITLE: High voltage transmission lines
deicing system - has
earth return cables connected to
conductor withdrawn from
operation to reduce insulation level**

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PATENT-FAMILY:

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BASIC-ABSTRACT:

High-voltage network contains transmission lines (3, 5) with earth-return cables (7, 8) and an ice-thawing supply (1) which is connected at the time of melting to a line conductor withdrawn from operation. The short-coming of the system is the need for a thawing supply at every substation and so the cables (7, 8) require a relatively high level of insulation.

In the proposed network the cables (7, 8) are connected to the conductor withdrawn from operation. The invention concerns power engineering. It is useful in high-voltage networks in icy areas. It enables cables on lines from distribution substations to be de-iced from a single supply. Sectionalisation of the cables considerably reduces the insulation level.

**TITLE-TERMS: HIGH VOLTAGE TRANSMISSION LINE
DEICER SYSTEM EARTH RETURN CABLE
CONNECT CONDUCTOR WITHDRAW OPERATE
REDUCE INSULATE LEVEL**

DERWENT-CLASS: W01 X12